



1085980 - R8 SDMS

U.S. Environmental Protection Agency Region 8 Superfund Program Contract Laboratory Program (CLP)

					Validation	1	-
Ca	se Number:	37402		SDG Number:	MHZSFI		
· · · · · · · · · · · · · · · · · · ·			AUDIT OI	IFOK IST			**************************************
			AUDIT CH	1ECKLIST			
	the Region	ng items are verified for each 8 Inspection of Complete San on approximately 10% of the firked.	nple Delivery Group	SOP, the items identif	ied as "Complete Aud	lit Only" are	
9	CHAIN OF CUS	STODY					
1.	Custody Seal	Present?	,		Yes $ imes$	No	•
2.	Condition of S	Seal?	Intact	Signed > I	Broken	Insigned	
3.	Chain of Cust	tody Record(s)/Traffic R	eports Present?		Yes_×	No	
4.	Chain of Cust	tody Record(s)/Traffic R	eports Signed?		Yes_X	No	
5.	Chain of Cust	tody Record(s)/Traffic R	eports Dated?		Yes_×	No-	
6.	Airbill Present	t?			Yes	No ×	
7.	Airbill Number	r(s)? * N £	<u> </u>			• •	
8.	Airbill Signed	?		•	Yes N	No	
9.	Airbill Dated?		•	,	Yes NX	No	
10.	Sample Tags	s Present?		· ·	Yes	No_X	
11.	Sample Tags	s Match DC-1 (Complete	Audit Only)?		Yes	No	N/A_X
<u> </u>	ORM DC-1		•				
12.	Form DC-1 P	Present?			Yes_X	No	
Ē	FORM DC-2						
13.	Form DC-2 P	Present?			Yes_X	No	
14.	Form DC-2 R	Reviewed by USEPA and	d Correct (Comp	olete Audit Only)?	Yes	No	N/A <u>X</u>
						5 c	

<u></u>	OCUMENT CONTROL		•	
15.	Laboratory Documents Legible (Complete Audit Only)?	Yes	No	N/A_X
16.	Original Documents Included in CSF (Complete Audit Only)?	Yes	No	N/A_>
<u>D</u>	ATA INSPECTION		* * * * * * * * * * * * * * * * * * *	,
17.	Raw data present (for each analytical fraction defined by the traffic report/chain of custody record)?	Yes_X_	No	
18.	Percent Solids Form present for soil samples?	Yes	No	N/A <u>×</u>
19.	Cover Page Present?	Yes_X	No	
20.	Records of Communication Present?	Yes_X_	No	N/A
21.	Form 1s present (for each analytical fraction defined by the traffic report/chain of custody record/cover page) (Complete Audit Only)?	Yes	No	N/A <u></u>
<u>E</u>	LECTRONIC DATA			
22.	Electronic DAT file elements received? EDD CCS Report M/VS Report Defect Code Report	Yes X Yes X Yes X Yes >	No No No	N/A N/A N/A
23.	List RPM and contractors who received electronic DAT file:		:	
<u>c</u>	OMMENTS: Lobarctory indicated a the tample That that sample tags we not provide the samples Add trained on Amboll provided to the late stage of the	Tay Into	media id	
(As de Region Compl	ted By: fined in the 18 Inspection of ete Sample ry Group SOP) Ton Groot rich Print Name	Date:	9/11/200	δ

EAC Procedure_July 2004 Revision 1.0



SDG Administrative Narrative

Contract: $W-W-O(C)$	2-054
Case: 37402	·
SDG: MH251	=/
Set ID No.: 817-103	4
Cooler # and temperatures of each (upon rec	eipt)
Cooler Number C08-	Arrival temperature was°C
Cooler Number C08-	Arrival temperature was°C
Cooler Number C08	Arrival temperature was°C
Cooler Number C08	Arrival temperature was°C
Cooler Number C08	Arrival temperature was°C
Cooler Number C08	Arrival temperature was°C
Cooler Number C08	Arrival temperature was°C
Cooler Number C08	Arrival temperature was°C
Cooler Number C08	Arrival temperature was°C
Communications:	

Any sample receiving issues with this SDG are fully documented through the email communications which are included as a portion of this SDG Narrative and immediately follow this page. Copies of each of these email communications are also located in the communication section of this datapackage. In addition, any analytical issues pertinent to a given fraction are fully documented by the analyst in the associated narrative for the applicable fraction.

Comments:

None.		
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Signature:	Date Date Date Date Date Date Date Date	te: / / ///

Edwards, Meredith D.

From:

Olson, Roxanne

Sent:

Wednesday, June 18, 2008 2:47 PM

To:

Edwards, Meredith D.

Subject:

FW: Region 08 | Case 37402 | Lab DATAC | Issue Multiple | FINAL

Attachments:

2008061810320025.pdf; 37402 CLP IDs.xis





200806181032002537402 CLP IDs.xis .pdf (642 KB) (28 KB)

----Original Message----

From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]

Sent: Wednesday, June 18, 2008 2:24 PM

To: Olson, Roxanne

Cc: beard.carol@epa.gov

Subject: Region 08 | Case 37402 | Lab DATAC | Issue Multiple | FINAL

Roxy,

Summary Start

-Discrepancies with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC. with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC. Resolution 1: Per Region 8, the laboratory will note issue in the SDG Narrative and will use the CLP sample ID provided in the attached table for the DM water and soil samples. The TM water samples will retain the CLP ID listed on the TR/COC.

-Sample listed on TR/COC but not received at laboratory- Issue 2: No sample container was received for DM for sample on TR designated MH25A4. TM container was received. Resolution 2: Per Region 8, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Summary End

Caroline L. Kramer ckramer5@fedcsc.com Computer Sciences Corporation (CSC) 703.818.4248

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----Original Message----

From: Beard.Carol@epamail.epa.gov [mailto:Beard.Carol@epamail.epa.gov]

Sent: Wednesday, June 18, 2008 1:17 PM

To: Kramer, Caroline

Subject: Re: Region 08 | Case 37402 | Lab DATAC | Issue Multiple

Caroline-

Issue 1: Please provide the laboratory with new ID for the different matrices for Case 37402.

Issue 2: Please have the laboratory note this in the case narrative and proceed with the analysis.

Thanks! Carol

"Kramer, Caroline"

<ckramer5@fedcsc</pre>

.com>

Carol Beard/EPR/R8/USEPA/US@EPA

CC

To

06/18/2008 11:06

AM

Subject

Region 08 | Case 37402 | Lab DATAC

| Issue Multiple

Carol,

DATAC is reporting the follow issues regarding Case 37402 for samples delivered today. TR/COC are attached for reference. Please advise on how the Region wishes the laboratory to proceed.

-Discrepancies with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC.

*Please advise if you would like me to provide new ID for the different matrices. I can do this in a table like last time.

-Sample listed on TR/COC but not received at laboratory- Issue 2: No sample container was received for DM for sample on TR designated MH25A4.

TM container was received.

Please let me know if you have any questions. Thanks,

Caroline L. Kramer ckramer5@fedcsc.com Computer Sciences Corporation (CSC) 703.818.4248

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----Original Message----

From: Olson, Roxanne [mailto:olsonr@datachem.com]

Sent: Wednesday, June 18, 2008 12:40 PM

To: Kramer, Caroline Cc: Edwards, Meredith D.

Subject: Case 37402 Sample Delivery 6/18

Caroline: Here are the TRs for case 37402 for samples we received today and which we spoke about a few minutes ago on the phone.

Issues we see immediately:

TM, DM and Sediment samples all have same EPA IDs. Water containers labels do

differentiate between DM and TM.

No container was received for DM for sample on TR designated MH25A4. TM container was received.

How do we complete DC-1 forms?

More issues may crop up but we can't begin to address this delivery until we get the first issues taken care of.

Thanks for your help!

Roxy (See attached file: 2008061810320025.pdf)

Listed TR ID	Matrix	Analysis	New CLP ID
	water	TM	MH2599
MH2599	water (filterd)	DM_	MH2662
	soil	TM	MH2663
	water	TM	MH25A0
MH25A0	water (filterd)	DM	MH2664
	soil	TM	MH2665
	water	TM	MH25A1
MH25A1	water (filterd)	DM	MH2666
[soil	TM	MH2667
	water.	TM	MH25A2
MH25A2	water (filterd)	DM	MH2668
·	soil	ТМ	MH2669
	water	TM	MH25A3
MH25A3	water (filterd)	DM	MH2670
	soil	TM	MH2671
14112546	water	TM	MH25A6
MH25A6	water (filterd)	DM	MH2672
	water	TM	MH25A7
MH25A7	water (filterd)	DM	MH2673
}	soil	TM	MH2674
	water	TM	MH25A9
MH25A9	water (filterd)	DM	MH2675
ľ	soil	TM	MH2676
MH25B0	water	TM	MH25B0
	water (filterd)	DM	MH2677
	soil	TM	MH2678
	water	TM	MH25B1
MH25B1	water (filterd)	DM	MH2679
•	soil	TM	MH2680
	water	TM	MH25B2
MH25B2	water (filterd)	DM	MH2681
·	soil	TM	MH2682
	water	TM	MH25B3
MH25B3	water (filterd)	DM	MH2683
	soil	TM	MH2684
MH25B4	water	TM	MH25B4
141114394	water (filterd)	DM	MH2685
	water	TM	MH25B5
MH25B5	water (filterd)	DM	MH2686
	soil	TM	MH2687
, .	water	TM	MH25B6
MH25B6	water (filterd)	DM	MH2688
<u> </u>	soil	TM	MH2689
	water	TM	MH25B7
MH25B7	water (filterd)	DM	MH2690
	soil	TM	MH2691

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	water	TM	MH25B8
MH25B8	water (filterd)	DM	MH2692
<u> </u>	soil	TM	MH2693
	water	TM	MH25C0
MH25C0	water (filterd)	DM	MH2694
	soil	TM	MH9695
MH25C4	water	TM	MH25C4
WIT 25C4	water (filterd)	DM	MH2696
	water	TM	MH25C5
MH25C5	water (filterd)	DM	MH2697
	soil	TM	MH2698
	water	TM	MH25C7
MH25C7	water (filterd)	DM	MH2699
	soil	TM	MH26A0
	water	TM	MH25C8
MH25C8	water (filterd)	DM	MH26A1
	soil	TM	MH26A2
141125.00	water	TM	MH25C9
MH25C9	water (filterd)	DM	MH26A3
	water	TM	MH25D1
MH25D1	water (filterd)	DM	MH26A4
	soil	TM	MH26A5
	water	ТМ	MH25D3
MH25D3	water (filterd)	DM	MH26A6
	water	ТМ	MH25D4
MH25D4	water (filterd)	DM	MH26A7
·	soil	ТМ	MH26A8
,	water	TM	MH25D5
MH25D5	water (filterd)	DM	MH26A9
	soil	TM	MH26B0
14110506	water	TM	MH25D6
MH25D6	water (filterd)	DM	MH26B1
	water	TM	MH25D7
MH25D7	water (filterd)	DM	MH26B2
	soil	TM	MH26B3
14112520	water	TM	MH25D8
MH25D8	water (filterd)	DM	MH25B4
14110000	water	ТМ	MH25D9
MH25D9	water (filterd)	DM	MH26B5
A 41 10 22 2	water	ТМ	MH25E0
MH25E0	water (filterd)	DM	MH26B6
h di la P = d	water	TM	MH25E1
MH25E1	water (filterd)	DM	MH2687
h Alliant	water	TM	MH25E2
MH25E2	water (filterd)	DM	MH26B8
	water	TM	MH25E3
MH25E3	water (filterd)	DM	MH26B9

-17

	water	TM	MH25E4
MH25E4	water (filterd)	DM	MH26C0
<u> </u>	soil	TM	MH26C1
	water	TM	MH25E5
MH25E5	water (filterd)	DM	MH26C2
	soil	TM	MH26C3
	water	TM	MH25E6
MH25E6	water (filterd)	DM	MH26C4
	soil	TM	MH26C5
	water	TM	MH25E7
MH25E7	water (filterd)	DM	MH26C6
	soil	TM	MH26C7
	water	TM	MH25E8
MH25E8	water (filterd)	DM	MH26C8
1	soil	TM	MH26C9
MH25E9	water	TM	MH25E9
NIUZ2E3	water (filterd)	DM	MH26D0
MH25F0	water	TM	MH25F0
IVITIZE	water (filterd)	DM	MH26D1

Edwards. Meredith D.

From: Olson, Roxanne

Sent: Friday, June 20, 2008 9:54 AM

To: Edwards, Meredith D.

Subject: FW: Region 08 | Case 37402 | Lab DATAC | Issue Insufficient volume | FINAL

From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]

Sent: Friday, June 20, 2008 9:46 AM

To: Olson, Roxanne **Cc:** beard.carol@epa.gov

Subject: Region 08 | Case 37402 | Lab DATAC | Issue Insufficient volume | FINAL

Roxy.

Summary Start

Issue: There were no samples designated on the TR/COC for laboratory QC and lab QC is required per scheduling. The laboratory is unable to perform a reduced volume QC on the waters as the samplers delivered the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. Below is a list of the SDG for Case 37402 and the laboratory has indicated which SDG will not have sufficient volume for QC, and where possible selected a sample they would like to use for QC.

MH2599 (TM water) no QC selected as there is not enough volume.

MH25C5 (TM water) no QC selected as there is not enough volume.

MH25E8 (TM water) no QC selected as there is not enough volume.

MH2662 (DM water) no QC selected as there is not enough volume.

MH2697 (DM water) no OC selected as there is not enough volume.

MH26C8 (DM water) no QC selected as there is not enough volume.

MH25F1 (TM soil) selected MH26C9 for QC.

MH2663 (TM soil) selected MH2695 for QC

Resolution: Per Region 8, the laboratory's selection of soil QC samples is acceptable. The laboratory will note the volume insufficiency in the SDG Narrative, cancel lab QC on the TM and DM SDG and proceed with the analysis of the samples.

Summary End

Please let me know if you have any questions or problems. Thank you,

Caroline L. Kramer

ckramer5@fedcsc.com

Computer Sciences Corporation (CSC)

703.818.4248

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→ 6/20/2008 Phone conversation between Caroline Kramer, SMO, and Carol Beard, Region 8. Carol confirmed that the soil samples selected for QC are acceptable and that DATAC can cancel the QC for the water samples due to insufficient sample volume. The laboratory will note the issue in the SDG Narrative.

From: Kramer, Caroline

Sent: Thursday, June 19, 2008 3:21 PM

To: 'beard.carol@epa.gov'

Subject: Region 08 | Case 37402 | Lab DATAC | Issue Insufficient volume

Carol.

DATAC is reporting the following issue regarding Case 37402. Please advise on how the Region wishes the laboratory to proceed.

Issue: There were no samples designated on the TR/COC for laboratory QC and lab QC is required per scheduling. The laboratory is unable to perform a reduced volume QC on the waters as the samplers delivered the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. Below is a list of the SDG for Case 37402 and the laboratory has indicated which SDG will not have sufficient volume for QC, and where possible selected a sample they would like to use for QC.

MH2599 (TM water) no QC selected as there is not enough volume. MH25C5 (TM water) no QC selected as there is not enough volume. MH25E8 (TM water) no QC selected as there is not enough volume. MH2662 (DM water) no QC selected as there is not enough volume. MH2697 (DM water) no QC selected as there is not enough volume. MH26C8 (DM water) no QC selected as there is not enough volume. MH25F1 (TM soil) selected MH26C9 for QC. MH2663 (TM soil) selected MH2695 for QC

Please let me know if you have any questions or problems. Thank you,

Caroline L. Kramer ckramer5@fedcsc.com Computer Sciences Corporation (CSC) 703.818.4248

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From: Olson, Roxanne [mailto:olsonr@datachem.com]

Sent: Thursday, June 19, 2008 3:04 PM

To: Kramer, Caroline

Subject: FW: Region 8 Case 37402

Caroline: See the following for the SDGs and where possible DATAC's selection for QC. Please note that because this was a confusing login effort we have one SDG (MH2663) that we did not use the lowest alpha numeric number to name the SDG.

Roxy

From: Edwards, Meredith D.

Sent: Thursday, June 19, 2008 12:57 PM

To: DataChem EPA List

Subject: Region 8 Case 37402

Here are the SDG names and then the samples I chose for QC.

MH2599 TM water no QC selected as there is not enough volume.

MH25C5 TM water no QC selected as there is not enough volume.

MH25E8 TM water no QC selected as there is not enough volume.

MH2662 DM water no QC selected as there is not enough volume.

MH2697 DM water no QC selected as there is not enough volume.

MH26C8 DM water no QC selected as there is not enough volume.

MH25F1 TM soil selected MH26C9 for QC.

MH2663 TM soil selected MH2695 for QC also on this SDG I used a higher number to name the SDG. Since there were only 2 samples that didn't change names after receipt it was very confusing.

Thanks

Mere

----Original Message-----From: Kramer, Caroline

Sent: Thursday, June 19, 2008 10:47 AM

To: 'Olson, Roxanne'

Subject: RE: Region 08 | Case 37402 | Lab DATAC | Issue Multiple | FINAL

Roxv.

Just let me know as soon as you know which SDG will not have sufficient volume and I will pass it along to the Region for a resolution.

Please let me know if you have any confusion with the spreadsheet of new sample IDs as you are logging them in. Thanks,

Caroline L. Kramer ckramer5@fedcsc.com Computer Sciences Corporation (CSC) 703.818.4248

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----Original Message----

From: Olson, Roxanne [mailto:olsonr@datachem.com]

Sent: Thursday, June 19, 2008 10:38 AM

To: Kramer, Caroline

Subject: FW: Region 08 | Case 37402 | Lab DATAC | Issue Multiple | FINAL

Caroline: Another issue with the samples from yesterday as we were logging them in. We have no extra volume for the water samples for QC. Is the case closed or should we expect additional volume from another delivery? We can't even do a reduced volume on the waters as the samplers are delivering the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. I will let you know which SDGs will not have QC as soon as we complete the login.

Roxy

USEPA - CLP COVER PAGE

Lab Name: DATACHEM LABORATORIES	Contract: EP-W-06-054
Lab Code: DATAC Case No.: 37402	NRAS No.: 1553.0 SDG No.: MH25F1
SOW No.: ILM05.4	
EPA Sample No. MH25F1 MH2698 MH26A0 MH26A5 MH26A5 MH26A8 MH26B0 MH26B3 MH26C1 MH26C3 MH26C7 MH26C9 MH26C9S	Lab Sample ID 8171034001 8171034002 8171034003 8171034004 8171034005 8171034006 8171034007 8171034008 8171034010 8171034011 8171034011 8171034012 8171034015 8171034014
·	
<u> </u>	· ·
	ICP-AES ICP-MS
Were ICP-AES and ICP-MS Interelement corrections applied?	(Yes/No) <u>YES</u> <u>NO</u>
Were ICP-AES and ICP-MS background coapplied?	orrections (Yes/No) YES NO
If yes - were raw data generated be application of background correcti	
Comments:	
<u> </u>	
than the conditions detailed above. hardcopy data package and in the comp	nnically and for completeness, for other Release of the data contained in this puter-readable data submitted on diskette onic transmission, if approved in advance Laboratory Manager or the Manager's
Date: 07/07/2008	Title: Chemist



SDG NARRATIVE

Case #: 37402 SDG#: MH25F1

Contract #: EP-W-06-054 DCL Set ID#: 8171034

July 7, 2008

General Information

The thirteen samples in this SDG were analyzed by methodologies contained in ILM05.4, by MOD # 1553.0. All concentration, analytical, and method qualifiers are defined in the SOW.

Holding Times

All samples were prepared and analyzed within method required holding times.

Initial and Continuing Calibration

All initial and continuing calibration verification and blank analyses were performed within the designated frequency and recoveries of the verifications and concentrations of the blanks met method acceptance criteria.

Interference Check Sample Analysis

Results for the interference check samples met method acceptance criteria.

Preparation Blanks

The absolute values of all analyte concentrations in the preparation blanks were lower than the Contract Required Quantitation Limits.

Laboratory Control Sample Analysis

Results for the analysis of the LCS met method acceptance criteria.

Matrix Spike Analysis

All matrix spike recoveries were within the limits of 75-125%

Matrix Duplicate Analysis

All matrix duplicate results met method criteria.

Serial Dilution

ICP-AES Serial Dilution results met method acceptance criteria.

Miscellaneous Comments

All calibration data is linear, please see raw data. Cooler temps were at 4 and 9 °C at time of receipt.

Example Equations

Method MW1:
$$C \times \frac{Vf}{Vi} \times DF = Concentration(\mu g/L)$$

Where,

Where, $C = Instrument value in \mu g/L$ (The average of all replicate integrations). Vf = Final digestion volume (mL) Vi = Initial digestion volume (mL) DF = Dilution Factor

SAMPLE LOG-IN SHEET

CREW						Must 1553	٥.		·
.ab Name Data(Chem Laboratori	es, Inc.					•	Page	1 of 1
Received By (Print Nam	_ IIVEYR ALKA_	Elian	· · _					Log-in Date	6/19/08
Received By (Signature	Meredul	Leds.	hard .						· · · · · · · · · · · · · · · · · · ·
Case Number	\V		·			Sample Delivery Group No.	12581	NRAS Numb	nia
Remarks:		EPA Sample #		Aque	ן צטסי	Correspon		R	emarks: on of Sample
7				ph		Sample Tag #	Assigned Lab #	Ship	ment, etc.
1. Custody Seal (s)	Present/Absent	Mt 2	5A7	12				1 TM	water_
	Intact/Broken*		Ag			·			
2. Custody Seal Nos.	<u>Na</u>		130						
			Ы				<i>:</i>		
TrafficReports/ Chain of Custody Records or Packing Lists	Plesent/Absent*		Øŧ		,				
4. Airbill	Airbill/Sticker Present/Absent*		b 5	11					
:			OS.					1	
5. Airbill No.	<u>nla</u>		1)9						
			E8						
6. Sample Tags	Present/Absent	,	FI	NA	_		8171034001	Metals	Soil
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	MH.	263	42				DA	Moley
7. Sample Condition	intag/Broken*/ Leaking*		75					,	1
8. Cooler Temperature Indicator Bottle	Present/Absent		77						
9. Cooler Temperature	4.		79					,	
10. Does information on custody records, traffic reports, and sample tags agree?	€		85						. *
11.Date Received at lab	80/8/10		86				,		·
12. Time Received	-815		92				,		!
Sample Transfer			B 5						1
Fraction DA	Fraction		C8						
Area # (7. 273	Area # Wo					Ale volume			
By My	Ву			-	_	· thirtox			
Contact SMO and attac	On Constitution					·			
Reviewed By		ne	Med	~		Lagbook No. NOT APPLICA	BLE	·	
Date:	10/10	7/DE	,			Logbook Page No. NOT APP	LICABLE	4	, ,

SAMPLE LOG-IN SHEET

	hem Laboratori	es, Inc.			•	Page of2
Received By (Print Name	1 tellarm	Eduards			· · · · · · · · · · · · · · · · · · ·	Log-in Date
Received By (Signature)	11/ bind. 10	tellmords				
Case Number 3740	2			Sample Delivery Group No.	MH2SFI	NRAS Number
lemarks:		EPA Sample #	Aqueous Sample	Corresp	onding	Remarks: Condition of Sample
•	المالانان تنوي		pH	Sample Tag #	Assigned Lab #	Shipment, etc.
Custody Seal (s)	Present/Assent*	Mt 210 D2	11/4	n/a	 	NV
•	Intercoproken.	NIH 25 A5		<u> </u>	<u> </u>	
Custody Seal Nos.	<u>n</u> la	MH 2663				,
	<u> </u>	1 45				1
TrafficReports/ Chain of Custody						
Records or Packing Lists	Present/Absent*	ler			-	
Airbill	Airbill/Sticker Present/Absent*	l va		·		
		1				
Airbill No.	Na	74				
		76				
Sample Tags	Present/Absent	71/2		1		
Sample Tags	Listed/Not Listed on		++			
Numbers	Chain-of-Custody	80		<u>'</u>		
Sample Condition	Inded/Broken*/ Leaking*	82		<u> </u>		
Cooler Temperature indicator Bottle	Present/Absent	k4				
Cooler Temperature	9.	87				
). Does information on custody records,						
traffic reports, and sample tags agree?	Ga/No:	89				
I.Date Received at lab	4/18/18	91				
2. Time Received	815	93				
ample Transfer		95				
Fraction Aut 1915	Fraction	98			8171034002	
ea# 1241	Area # VIL.	Ao			1003	·
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SAMPLE LOG-IN SHEET

.ab Name	·						1553.0		
	hem Laboratori	ies, Inc.						Page _	2 of 2
eceived By (Print Name								Log-in Date	(11908
eceived By (Signature)	Moredal 2	Cambris			 -	 		4	417408
ase Number 1 1		PAMPIU	<u></u> :			Sample Delivery Group No). 161.1 a = Cl	NRAS Num	ber
Remarks:	OV		· .	Aque			MH2SF1	 	n/w
·		- EP/	Sample #	Sam	ple -	Correct Sample Tag #	sponding Assigned Lab #	Condi	Remarks: ition:of:Sample ipment, etc.
•	_	Intil n	inth	+ ,					
Custody Seal (s)	Present/Alsent* Intact/Broken*	MH 2	_	MG	-	<u>u(n</u>	8/7/034004	INC	pl soil
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2. Custody Seal Nos.	<u> </u>		B3_	1.			840		
	<u> </u> .		Cl				UPA	<u> </u>	
3. TrafficReports/ Chain of Custody			•		1	,	110		[
Records or Packing Lists	Present/Absent*		<u>C3</u>				Ulo		
4., Airbill	Airbill/Sticker Present/Absent*		CS		1		011		
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	int a		(9)		7				A slave
5. Airbill No.	<u> </u>			╅	\dashv		013,014	Ph	aspao
					\dashv	 ,		-	
3. Sample Tags	Present/Absent*				_				·
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody								
	lip@e/Broken*/								
7. Sample Condition 8. Cooler Temperature	Leaking*	 	· · · · · · · · · · · · · · · · · · ·	+	eg	· · · · · · · · · · · · · · · · · · ·		 	
Indicator Bottle	Present/Alesent*	·		<u>. </u>	-	Alexandra Maria		 	
Cooler Temperature	<u>a.</u>	ļ		<u> </u>	_	- The state of the		 	". <u> </u>
10. Does Information on custody records, traffic reports, and						- HALOK	1		•
sample tags agree?	Yes/No*			_	 		\	 	
1.Date Received at lab	6/19/08	ļ	· ·- ·-	_	_	<u>.</u>			
2. Time Received			·						· · · · · · · · · · · · · · · · · · ·
Sample Transfer			· · · · · · · · · · · · · · · · · · ·						
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	611	7/08	-		_ 1				

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME	DataChem Laboratories, Inc.						
CITY/STATE	Salt Lake City, UT 84	123					
CASE NO.	37402	SDG NO.:	MH25F1				
SDG NOs. TO FOLLOW	N/A						
NRAS No.	N/A						
CONTRACT NO.	EP-W-06-054						
SOW NO.	ILM05.4						
•							

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

			PAGE	NOs	CHI	ECK
			FROM	TO	<u>LAB</u>	REGION
4			j	1		
1:	Cover Page					
2.	SDG Narrative		<u> </u>	<u> </u>	✓	
3.	Sample Log-In Sheet (DC-1)		<u> 4</u>	0	✓	
4.	Inventory Sheet (DC-2)		- 	_8		
5.	Traffic Report/Chain of Custody Record(s)		9	_//_	✓	
	Inorganic Analysis		4.5	- 1/		
6.	Data Sheet (Form I-IN)		10	24	✓	
7.	Initial & Continuing Calibration		ے ر	2/0		
	Verification (Form IIA-IN)		05	QQ		
8.	CRQL Standard		_)7	28	, .	
	(Form IIB-IN)		<u>~</u>	00		
9.	Blanks (Form III-IN)		_27_	<u>30</u>		
10.	ICP-AES Interference Check Sample (Form IVA-IN)		31	34	✓	
11.	ICP-MS Interference Check Sample		1 1		,	
	(Form IVB-IN)				<u> </u>	
12.	Matrix Spike Sample Recovery		. > _	~~	,	
	(Form VA-IN)		37	<u>35 </u>	—	
13.	Post-Digestion Spike Sample Recovery		~ 1 /			•
	(Form VB-IN)		IVA		✓	
14.	Duplicates (Form VI-IN)		360	36	✓	
15.	Laboratory Control Sample		27	2 2		
	(Form VII-IN)		<u>3 +</u>	<u>5</u>		
16.	ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)		38	38	✓	
17.	Method Detection Limits (Annually) (Form			90		
17.	IX-IN)		39	40		
18.	ICP-AES Interelement Correction Factors		(11	111	,	
	(Quarterly) Form XA-IN)		71	41		
19.	ICP-AES Interelement Correction Factors		U)	1/2	,	
20	(Quarterly) Form XB-IN)		101	45		·
20.	ICP-AES and ICP-MS Linear Ranges (Quarterly) Form XI-IN)	•	44	44	1	
21.	Preparation Log (Form XII-IN)		110	110		
	reparation bog (rotal har in)		-75- -	45		

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs	CHECK
	FROM TO	LAB REGION
	1110 112	
22. Analysis Run Log (Form XIII-IN)	$\frac{90}{10}$	<u> </u>
23. ICP-MS Tune (Form XIV-IN) 24. ICP-MS Internal Standards Relative	<u> NA</u> _	→ —
Intensity Summary (Form XV-IN)	NA	✓
25. ICP AES Raw Data	48 110	√
26. GFAA Raw Data (If Applicable)	NIA TO	√
27. ICP-MS Raw Data	NA	<u> </u>
28. Mercury Raw Dta	NIA-	√ .
29. Cyanide Raw Data	NA -	<u> </u>
30. Preparation Logs Raw Data	1// 1//	✓
31. Percent Solids Determination Log	KIA -	<u> </u>
32. USEPA Shipping/Receiving Documents		
Airbill (No. of Shipments)	NA	✓
Sample Tags	110 112	✓ .
Sample Log-In Sheet (Lab)	NA	√
33. Misc. Shipping/Receiving Records		
(list all individual records)	, A	
Telephone Logs	NA	✓ .
DCL CRIR	NA NA	✓
DCL SDG TR Cover Sheet		✓
34. Internal Lab Sample Transfer Records and		
Tracking Sheets (describe or list)	. 1	
DCL Work Order	<u>NA</u> ,	<u> </u>
DCL COC	<u> </u>	✓
35. Internal Original Sample Prep &		
Analysis Records (describe or list)	1//0 /) [
Prep Records	<u> </u>	
Analysis Records		
Description	NA	
36. Other Records (describe or list)	A \ A	
Telephone Communications Log	NA -	
E-mail Communications	150 /59 _	<u> </u>
· · · · · · · · · · · · · · · · · · ·		<u>✓</u>
37. Comments:		<u> </u>
<u></u>		
Completed by:		,
(CLP Lab)	Melissa Duggan / Doc. Ctrl.	7/7/08
(Signature)	(Print Name & Title)	(Date)
Audited By:		_
(USEPA)	· · · · · · · · · · · · · · · · · · ·	. 8
(Signature)	(Print Name & Title)	(Date)
FORM I	DC-2-2	ILM05.4

Date Shipped: Carrier Name: Airbill: Shipped to:	USEPA Co Inorganic 6/16/2008 Hand delivered Datachem Laborate Inc. 960 West LeVoy D Salt Lake City UT 8	Traff	t Laboratory ic Report & C Chain of Custod Relinquished By 1 2 3	hain of Custody	Record 81. MK (S55.0) Sampler Signature A 9 Received By Murrol Livil	71234 (Date / Time) (p/(x/(x)/x)/x)	Ase Months and Months	MH15F o Use Only ract No:	No wost
	(801) 266-7700	74123	4				Lab Cont		
INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC! TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLL DATE/TIM	LECT	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH25C5	Surface Water/	/G	DM (21), TM (21)	91, 92, 93 (3)	Silver Creek upstream of Dority Springs	S: 6/5/2008	10:20		<u></u>
	Garden State of the State of th	10		0 1, cor co (8)	Charles of the				
MH25C7	Surface Water/ Sediment	/G	DM (21), TM (21)	97, 98, 99 (3)	Silver Creek above Prospector Square	S: 6/5/2008	10:50		V
MH25C8	Surface Water/ Sediment	/G	DM (21), TM (21)	100, 101, 102 (3)	Silver Creek downstream of Ontario	S: 6/5/2008	12:55	•	
MH25C9	Surface Water	/G	DM (21), TM (21)	1 03, 104, 105 (3) (2)	Canyon Silver Creek above Ontario Canyon	S: 6/5/2008	13:20		W
MUSED	Surface Militar	-			Cibro Control				\
MH25D1	Surface Water/	. /G	DM (21), TM (21)	109, 110, 111 (3)	Ontario Canyon below Ontario Drain Tunnel 2	S: 6/5/2008	14:50		
وعووش		*	DM (04) TM (04)	412-440-444(8)	the desirate state of the state	•			-
MH25D3	Surface Water	/G	DM (21), TM (21)	115, 116, 117(3) (2)	Ontario Canyon above Empire Canyon	S: 6/5/2008	14:00		
MH25D4	Surface Water/	/G	DM (21), TM (21)	118, 119, 120 (3)	Mouth of Empire Canyon	S: 6/5/2008	15:00		

Shipment for Case	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature	Chain of Custody Seal Number:
Complete?N			Upon Receipt:	
ဖ			<u> </u>	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C. Grab = G		Custody Seal Intact? Shipment Iced?
DM = CLP TAL Dissolve	od Metals TM = CLP TAL Total Metals			

TR Number:

LABORATORY COP

EPA	
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USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record

Chain of Custody Record

(Date / Time)

Case	No:	

For Lab Use Only

37402

D/	15	No
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SDG No:

1501			,

1 Then law 1

)	Date Shipped:	
	Carrier Name:	

6/16/2008

Hand delivered

Airbill:

Shipped to: Datachem Laboratories,

960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Relinquished By 2

3

Sampler Signature: Received By

(Date / Time)

Lab Contract No:

Unit Price:

Transfer To: Lab Contract No:

Unit Price:

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INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONCI	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt	
MH25D5	Surface Water/ Sediment	/G	DM (21), TM (21)	121, 122, 123 (3)	Mouth of Walker & Webster Gulch	S: 6/6/2008	11:00	·		
MH25D6	Surface Water	/G	DM (21), TM (21)	124, 125, 120 (3) (で)	Mouth of Anchor Tunnel	S: 6/6/2008	9:50	•		
MH25D7	Surface Water/	/G	DM (21), TM (21)	127, 128, 129 (3)	Upstream of Anchor Tunnel	S: 6/6/2008	10:30			
MH25D8	Ground Water	/G	DM (21), TM (21)	130, 131 (2)	Transect 1	S: 6/4/2008	18:5Ŝ	,		
MH25D9	Ground Water	/G	DM (21), TM (21)	132, 133 (2)	Transect 2	S: 6/4/2008	17:43			
MH25E0	Ground Water	/G	DM (21), TM (21)	134, 135 (2)	Transect 3	S: 6/4/2008	17:08			
MH25E1	Ground Water	/G	DM (21), TM (21)	136, 137 (2)	Transect 5	S: 6/3/2008	15:00	•		
MH25E2	Ground Water	/G	DM (21), TM (21)	138, 139 (2)	Transect 6	S: 6/3/2008	12:55			
MH25E3	Ground Water	/G	DM (21), TM (21)	140, 141 (2)	P2-5	S: 6/3/2008	10:57	. *		
MH25E4	Surface Water/	/G	DM (21), TM (21)	142, 143, 144 (3)	SC-SW-33	S: 6/5/2008	10:54			

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:		Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
_	·		4/4/4/4/9	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite ≈ C, Grab = G		Custody Seal Intact? N Shipment lead?
DM = CLP TAL Dissolve	d Metals, TM = CLP TAL Total Metals)		

LABORATORY COPY

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USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record Case No:

37402

DAS No:

Date Shipped: Carrier Name:

6/16/2008

Hand delivered

MA 1553.0

SDG No:

Airbill:

604

Shipped to:

Datachem Laboratories,

960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

3

chain of Custody I	Sampler Signature:	
telinquished By	(Date / Time)	Received

For Lab Use Only (Date / Time) Lab Contract No:

Unit Price:

Transfer To:

Lab Contract No:

Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALÝSIS/ TURNAROUND	TAG No.J PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE CO DATE/TI		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH25E5	Surface Water/ Sediment	/G	DM (21), TM (21)	145, 146, 147 (3)	SC-SW-40-1	S: 6/5/2008	14:30		
MH25E6	Surface Water/ Sediment	/G	DM (21), TM (21)	148, 149, 150 (3)	SC-SW-40-1	S: 6/5/2008	14:37		46.
MH25E7	Surface Water/	/G	DM (21), TM (21)	151, 152, 153 (3)	SC-SW-43	S: 6/6/2008	10:34		Mr. Market
MH25E8	Surface Water/	/G	DM (21), TM (21)	154, 155, 156 (3)	SC-SW-44	S: 6/5/2008	18:45		_
MH25E9	Surface Water	/G	DM (21), TM (21)	157, 158, 159 (3) (>)	SC-SW-OPP1	S: 6/5/2008	8:07		
MH25F0	Surface Water	/G	DM (21), TM (21)	1 60, 181, 162 (9) (2)	SC-SW-OPP2	S: 6/5/2008	15:40	·	
MHZ5FI	Sediment		TM(Zi	(1)	5 (-54-20				,

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:		Cooler Temperature Upon Recelpt:	Chain of Custody Seal Number:			
i	·		<i>ગાંગા</i> પાંચવ				
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Shipment leed?			
DM = CLP TAL Dissolved Metals, TM = CLP TAL Total Metals							

TR Number: 8-584325316-061608-0001

TARGET SHEET

EPA REGION VIII SUPERFUND DOCUMENT MANAGEMENT SYSTEM

DOCUMENT NUMBER: 1085980 **RICHARDSON FLAT TAILINGS** SITE NAME: DOCUMENT DATE: 09/11/2008 **DOCUMENT NOT SCANNED** Due to one of the following reasons: ☐ PHOTOGRAPHS ☐ 3-DIMENSIONAL □ OVERSIZED ☐ AUDIO/VISUAL □ PERMANENTLY BOUND DOCUMENTS □ POOR LEGIBILITY ☑ OTHER ■ NOT AVAILABLE ☐ TYPES OF DOCUMENTS NOT TO BE SCANNED (Data Packages, Data Validation, Sampling Data, CBI, Chain of Custody) **DOCUMENT DESCRIPTION:** 1 - 3 1/2" Floppy - File Name MH25F1.IO1, Contract #EP-W-06-054, Case/SDG 37402/MH25F1, 7/7/08